SUBJECT INDEX

Air temperature
Air-sea interaction over the tropical Indian Ocean during several contrasting monsoon seasons 393
Air-sea interaction
Air-sea interaction over the tropical Indian Ocean during several contrasting monsoon seasons 393
Akermanite
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and the systems Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Albite
Problems of pressure estimation in high temperature experiments using solid media apparatus; pressure calibration with reference to breakdown of albite and quartz-coesite transformation (Part II) 133
Alkaline lamprophytes
A review and assessment of experiments on Kimberlites, Lamproites and Lamprophores as a guide to their origin 57
Aluminium co-ordination
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and the systems Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Aluminosilicate glasses
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and the systems Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Amphibole
Patent mantle-metasomatism: Inferences based on experimental studies 21
Andaman islands
Tectonics of the ophiolite belt from Naga Hills and Andaman Islands, India 187
Anisotropic media
Magnetotellurics: Principles and practice 441
Anisotropy parameter
Toroidal oscillations of a transradially isotropic elastic sphere 383
Anomalous current systems
The nature of horizontal anomalies and magnetotelluric impedance over Southern India 681
Anomaly inversion
Magnetics in geoexploration 515
Anomaly maps
Magsat studies over the Indian region 619
Anorthite
Clinopyroxene on the join $CaMgSi_2O_6$–$CaFe^{3+}$·$AlSiO_6$–$CaTiAl_2O_6$ at low oxygen fugacity 39
Antarctica
Entrainment of circumpolar water in the Indian Ocean region of the Antarctic 425
Anvil-with-hole apparatus
Problems of pressure estimation in high temperature experiments using solid media apparatus with particular reference to piston-cylinder and anvil-with-hole apparatus (part I) 119
Apparent resistivity
The nature of horizontal anomalies and magnetotelluric impedance over Southern India 681
Approximation techniques
Magnetics in geoexploration 515
Aravalli Group
Structural studies in the Pre-Vindhyan rocks of Rajasthan: A summary of work of the last three decades 279

Backus-Gilbert inversion
Inversion of potential field data 473
Banded Gnessic Complex
Structural studies in the Pre-Vindhyan rocks of Rajasthan: A summary of work of the last three decades 279
Banded magnetite quartzites
Deformation style in the Granulite-charnockite province of South India: An example from the Kusulmalai area in Salem District, Tamil Nadu, India 215
Basement
Chhotanagpur Granite Gneiss in relation to the schistose rocks around Murhu, Ranchi district, Bihar: a structural approach 269
Basement topography
Magnetic anomalies of two-dimensional bodies and algorithms for magnetic inversion of dykes and basement topographies 549
Bayesian inference
Inversion of potential field data 473

C–H–O fluids
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma composition in the upper mantle 153
Chhotanagpur Granite Gneiss
Chhotanagpur Granite Gneiss in relation to the schistose rocks around Murhu, Ranchi district, Bihar: a structural approach 269

Cleavage duplex
Internal geometry of a thrust sheet, eastern Proterozoic belt Godavari Valley, South India 339
Clinopyroxene
Clinopyroxene on the join $CaMgSi_2O_6$–$CaFe^{3+}$·$AlSiO_6$–$CaTiAl_2O_6$ at low oxygen fugacity 39
Experimental study on the tremolite-pargasite join at variable temperatures under 10 kbar 81
Patent mantle-metasomatism: Inferences based on experimental studies 21
Coastal magnetic anomaly
Magnetics in geoexploration 515
Conductivity anomalies
Magnetometer array studies in India: Present status, data interpretation and assessment of numerical modelling results 693
Conductivity anomaly
Electromagnetometry at the sea floor 639
Conjugate folds
Structural studies in the Pre-Vindhyan rocks of Rajasthan: A summary of work of the last three decades 279
Continental oceanic boundaries
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Controlled source audio
Magnetotellurics: Principles and practice 441
Cover rocks
Chhotanagpur Granite Gneiss in relation to the schistose rocks around Murhu, Ranchi District, Bihar: a structural approach 269
Crust
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Electrical structure of the crust in South Eastern Tibet 717
Crustal fields
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Crystalline phases
Clinopyroxene on the join $CaMgSi_2O_6$–$CaFe^{3+}$·$AlSiO_6$–$CaTiAl_2O_6$ at low oxygen fugacity 39

Deccan traps
Palaeomagnetism and rock magnetism of the Deccan traps 669
Deformation history
Structural pattern in the precambrian rocks of Sonua-Lotapahar region, North Singhbhum, Eastern India 249
Deformational events
Deformational history of the precambrian Kolar Schist Belt, South India: Constraints for the tectonic evolution 201
Deformed lineation
Structural studies in the Pre-Vindhyan rocks of Rajasthan: A summary of work of the last three decades 279
Deformed lineation pattern
Singhbhum Shear Zone: Structural transition and a kinematic model 229
Delhi Group
Structural studies in the Pre-Vindhyan rocks of Rajasthan: A summary of work of the last three decades 279
Delhi Supergroup
Structural characteristics of the rocks of the Delhi Supergroup with special reference to interference patterns: An appraisal with some examples from Central Rajasthan 309
Differential basement mobility
Influence of differential basement mobility on contrasting structural styles in the cover rocks: An example from early precambrian rocks east of Udaipur, Rajasthan 291
Diopside
Preliminary phase equilibria of the nepheline-diopside system under variable pressures (up to 28 kbar) and temperatures 49
Domain states
Palaeomagnetism and rock magnetism of the Deccan traps 669
Dykes
Magnetic anomalies of two-dimensional bodies and algorithms for magnetic inversion of dykes and basement topographies 549

Early Precambrian rocks
Influence of differential basement mobility on contrasting structural styles in the cover rocks: An example from early precambrian rocks east of Udaipur, Rajasthan 291
Elastic sphere
Toroidal oscillations of a transradially isotropic elastic sphere 383
Electrical conduction in rocks
Magnetotellurics: Principles and practice 441
Electrical structure
Electrical structure of the crust in South Eastern Tibet 717
Electromagnetic
Magnetotellurics: Principles and practice 441
Electromagnetic methods
Magnetometer array studies in India: Present status, data interpretation and assessment of numerical modelling results 693
Electromagnetic variations
Electromagnetometry at the sea floor 639
Electromagnetometry
Electromagnetometry at the sea floor 639
Entrainment
Entrainment of circumpolar water in the Indian Ocean region of the Antarctic 425
Equatorial waves
Vertical structure and characteristics of 23–60 day (zonal) oscillations over the tropical latitudes

during the winter months of 1986—Results of equatorial wave campaign–II 413
Equivalent current systems
The nature of horizontal anomalies and magneto-telluric impedance over Southern India 681
Equivalent source method
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Exploration
Magnetotellurics: Principles and practice 441
External zone
Internal geometry of a thrust sheet, eastern Proterozoic belt Godavari Valley, South India 339

Fields in model earth
Magnetotellurics: Principles and practice 441
Fold interference
Structural characteristics of the rocks of the Delhi Supergroup with special reference to interference patterns: An appraisal with some examples from Central Rajasthan 309
Foreword
A perspective on experimental petrology.... 1
Structure and Tectonics: The Indian scene 167
Geomagnetic methods and lithospheric structure 439
Forsterite
Experimental study on the tremolite-pargasite join at variable temperatures under 10 kbar 81
Forward modelling
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Frequency equations
Toroidal oscillations of a transradially isotropic elastic sphere 383

Gehlenite
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and the systems Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Geoelectrical structures
Magnetometer array studies in India: Present status, data interpretation and assessment of numerical modelling results 693
Geological outlines
Electrical structure of the crust in South Eastern Tibet 717
Geomagnetic depth sounding
Magnetometer array studies in India: Present status, data interpretation and assessment of numerical modelling results 693
Geomagnetic soundings
Electrical structure of the crust in South Eastern Tibet 717
Geophysical outlines
Electrical structure of the crust in South Eastern Tibet 717
Gneisses
Deformational history of the precambrian Kolar Schist Belt, South India: Constraints for the tectonic evolution 201
Deformation style in the Granulite-charnockite province of South India: An example from the Kusulmalai area in Salem District, Tamil Nadu, India 215
Godavari Valley
Internal geometry of a thrust sheet, eastern Proterozoic belt Godavari Valley, South India 339
Geoexploration
Magnetics in geoexploration 515
Granite-greenstone
Deformation style in the Granulite-charnockite province of South India: An example from the Kusulmalai area in Salem District, Tamil Nadu, India 215
Granulite-charnockite
Deformation style in the Granulite-charnockite province of South India: An example from the Kusulmalai area in Salem District, Tamil Nadu, India 215

H-component
Variability of the S_q focus position in the South American continent 405
High pressure-temperature studies
High pressure-temperature studies on an olivine tholeiite and a tholeiitic picrite from the Pavagarh region, Gujarat, India 91
High saline water
High saline waters in Bay of Bengal 367
High temperature experiments
Problems of pressure estimation in high temperature experiments using solid media apparatus with particular reference to piston-cylinder and anvil-with-hole apparatus (part I) 119
Horizontal anomalies
The nature of horizontal anomalies and magneto-telluric impedance over Southern India 681
Hotspot origin
Seamounts in the Central Indian Ocean Basin: indicators of the Indian plate movement 357

Imbricate fan
Internal geometry of a thrust sheet, eastern Proterozoic belt Godavari Valley, South India 339
India-Eurasia (Sino-Burma) collision
Tectonics of the ophiolite belt from Naga Hills and Andaman Islands, India 187
Indian Middle Atmosphere Programme
Vertical structure and characteristics of 23–60 day (zonal) oscillations over the tropical latitudes during the winter months of 1986—Results of equatorial wave campaign-II 413

Indian Ocean
Air-sea interaction over the tropical Indian Ocean during several contrasting monsoon seasons 393
Entrainment of circumpolar water in the Indian Ocean region of the Antarctic 425
Indian Ocean tectonics
Seamounts in the Central Indian Ocean Basin: indicators of the Indian plate movement 357
Indian plate movement
Seamounts in the Central Indian Ocean Basin: indicators of the Indian plate movement 357
Induction studies
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Indus-Tsangpo suture zone
Indus-Tsangpo suture zone in Ladakh—it tectonostratigraphy and tectonics 169
Infrared spectroscopy
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and the systems Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Inhomogeneous media
Magnetotellurics: Principles and practice 441
Initial axial ratio
$R_i - \mu_i/\mu_m - C_i$ dependent oblateness of deformed pebbles in the Baraitha conglomerate, Central India and tectonic implications 321
Interference patterns
Structural characteristics of the rocks of the Delhi Supergroup with special reference to interference patterns: An appraisal with some examples from Central Rajasthan 309
Inversion of anomaly
Magsat studies over the Indian region 619

Kimberlites
A review and assessment of experiments on Kimberlites, Lamproites and Lamprophores as a guide to their origin 57
Kinematic model
Singhbhum Shear Zone: Structural transition and a kinematic model 229
Kolar Schist Belt
Deformational history of the precambrian Kolar Schist Belt, South India: Constraints for the tectonic evolution 201

Lamproites
A review and assessment of experiments on Kimberlites, Lamproites and Lamprophores as a guide to their origin 57
Lamprophytes
A review and assessment of experiments on Kimberlites, Lamproites and Lamprophores as a guide to their origin 57
Lherzolitic systems
A review and assessment of experiments on Kimberlites, Lamproites and Lamprophores as a guide to their origin 57
Linear inversion
Magnetics in geoexploration 515
Liquidus experiments
A review and assessment of experiments on Kimberlites, Lamproites and Lamprophores as a guide to their origin 57
Lithological characteristics
Structural pattern in the precambrian rocks of Sonua-Lotapahar region, North Singhbhum, Eastern India 249
Lithological mapping
Influence of differential basement mobility on contrasting structural styles in the cover rocks: An example from early precambrian rocks east of Udaipur, Rajasthan 291
Low-latitude inversion
Magsat studies over the Indian region 619

Magma composition
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma compositions in the upper mantle 153
Magnetic anomalies
Magnetic anomalies of two-dimensional bodies and algorithms for magnetic inversion of dykes and basement topographies 549
Magnetic anomaly
Magnetics in geoexploration 515
Magnetic layer
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Magnetic survey
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Magnetics
Magnetics in geoexploration 515
Magnetite
Clinopyroxene on the join $CaMgSi_2O_6$–$CaFe^{3+}\cdot AlSiO_6$–$CaTiAl_2O_6$ at low oxygen fugacity 39
Magnetization solution
Magsat studies over the Indian region 619
Magnetometer array studies
Magnetometer array studies in India: Present status, data interpretation and assessment of numerical modelling results 693
Magnetotelluric impedance
The nature of horizontal anomalies and magnetotelluric impedance over Southern India 681
Magnetotelluric soundings
Application of the telluric and magnetotelluric methods in selection of sites for nuclear plants 657
Electrical structure of the crust in South Eastern Tibet 717

Magnetotellurics
Magnetotellurics: Principles and practice 441
Magsat
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Magsat studies over the Indian region 619
Mantle
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Mantle conductivity
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Mantle metasomatism
Patent mantle-metasomatism: Inferences based on experimental studies 21
Mantle peridotite thermal structure
Experimental petrology: Quantitative boundaries for petrogenesis 5
Mantle plume
Experimental petrology: Quantitative boundaries for petrogenesis 5
Mapping in precambrian shield
Magnetics in geoexploration 515
Melilite
Preliminary phase equilibria of the nepheline-diopside system under variable pressures (up to 28 kbar) and temperatures 49
Clinopyroxene on the join $CaMgSi_2O_6$–$CaFe^{3+}AlSiO_6$–$CaTiAl_2O_6$ at low oxygen fugacity 39
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and the systems Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Melilite-analogue glasses
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and system Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Melting conditions
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma compositions in the upper mantle 153
Mesoscopic folds
Internal geometry of a thrust sheet, eastern Proterozoic belt Godavari Valley, South India 339
Midcontinent rift
Magnetics in geoexploration 515
Modelling
Magnetics in geoexploration 515
Monsoon
Air-sea interaction over the tropical Indian Ocean during several contrasting monsoon seasons 393
Monsoon climatology
High saline waters in Bay of Bengal 367
Morphology and distribution
Seamounts in the Central Indian Ocean Basin: indicators of the Indian plate movement 357
Multiple deformation
Structural studies in the Pre-Vindhyan rocks of Rajasthan: A summary of work of the last three decades 279

Naga Hills
Tectonics of the ophiolite belt from Naga Hills and Andaman Islands, India 187
Nepheline
Preliminary phase equilibria of the nepheline-diopside system under variable pressures (up to 28 kbar) and temperatures 49
New Madrid rift complex
Magnetics in geoexploration 515
New York-Alabama lineament
Magnetics in geoexploration 515
Nonuniqueness
Inversion of potential field data 473
North Singhbhum
Structural pattern in the precambrian rocks of Sonua-Lotapahar region, North Singhbhum, Eastern India 249
Nuclear plant site
Application of the telluric and magnetotelluric methods in selection of sites for nuclear plants 657

Oblateness
$R_i - \mu_i/\mu_m - C_i$ dependent oblateness of deformed pebbles in the Baraitha conglomerate, Central India and tectonic implications 321
Olivine tholeiite
High pressure-temperature studies on an olivine tholeiite and a tholeiitic picrite from the Pavagarh region, Gujarat, India 91
Olivine xenocryst
Redox state of the upper mantle 141
Ophiolites
Tectonics of the ophiolite belt from Naga Hills and Andaman Islands, India 187
Order of oscillations
Toroidal oscillations of a transradially isotropic elastic sphere 383
Oxidation-reduction
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma compositions in the upper mantle 153
Oxidized solidus
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma compositions in the upper mantle 153
Oxygen fugacity
Redox state of the upper mantle 141

Palaeomagnetism
Palaeomagnetism and rock magnetism of the Deccan traps 669

Pargasite
Experimental study on the tremolite-pargasite join at variable temperatures under 10 kbar 81
Pebble concentration
$R_f - \mu_i/\mu_m - C_t$ dependent oblateness of deformed pebbles in the Baraitha conglomerate, Central India and tectonic implications 321
Peridotite melting
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma compositions in the upper mantle 153
Peridotite partial melting
A review and assessment of experiments on Kimberlites, Lamproites and Lamprophores as a guide to their origin 57
Peridotites
Redox state of the upper mantle 141
Perovskite
Clinopyroxene on the join $CaMgSi_2O_6$–$CaFe^{3+}$·$AlSiO_6$–$CaTiAl_2O_6$ at low oxygen fugacity 39
Pertrofabrices
Chhotanagpur Granite Gneiss in relation to the schistose rocks around Murhu, Ranchi District, Bihar: a structural approach 269
Petrogenesis
Experimental petrology: Quantitative boundaries for petrogenesis 5
Phase assemblages
Clinopyroxene on the join $CaMgSi_2O_6$–$CaFe^{3+}$·$AlSiO_6$–$CaTiAl_2O_6$ at low oxygen fugacity 39
Phase equilibria
Preliminary phase equilibria of the nepheline-diopside system under variable pressures (up to 28 kbar) and temperatures 49
Phlogopite
Patent mantle-metasomatism: Inferences based on experimental studies 21
Piston-cylinder
Problems of pressure estimation in high temperature experiments using solid media apparatus with particular reference to piston-cylinder and anvil-with-hole apparatus (part I) 119
Placer magnetic anomaly
Magnetics in geoexploration 515
Polyphase deformation
Structural pattern in the precambrian rocks of Sonua-Lotapahar region, North Singhbhum, Eastern India 249
Structural characteristics of the rocks of the Delhi Supergroup with special reference to interference patterns: An appraisal with some examples from Central Rajasthan 309
Potential fields
Inversion of potential field data 473
Precambrian tectonics
Deformational history of the precambrian Kolar Schist Belt, South India: Constraints for the tectonic evolution 201
Pressure calibration
Problems of pressure estimation in high temperature experiments using solid media apparatus; pressure calibration with reference to breakdown of albite and quartz-coesite transformation (part II) 133
Pressure estimation
Problems of pressure estimation in high temperature experiments using solid media apparatus with particular reference to piston-cylinder and anvil-with-hole apparatus (part I) 119
Progressive deformation
Singhbhum shear zone: Structural transition and a kinematic model 229
Proterozoic
Internal geometry of a thrust sheet, Eastern Proterozoic belt Godavari Valley, South India 339
Pyrolite systems
Patent mantle-metasomatism: Inferences based on experimental studies 21

Quartz-coesite
Problems of pressure estimation in high temperature experiments using solid media apparatus; pressure calibration with reference to breakdown of albite and quartz-coesite transformation (part II) 133

Redox state
Redox state of the upper mantle 141
Reduced solidus
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma compositions in the upper mantle 153
Refolding
Singhbhum Shear Zone: Structural transition and a kinematic model 229
Regularization
Inversion of potential field data 473
Resistive layer problem
Magnetotellurics: Principles and practice 441
Rock magnetism
Palaeomagnetism and rock magnetism of the Deccan traps 669
Rock properties
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Rotation of fold hinges
Singhbhum Shear Zone: Structural transition and a kinematic model 229

S_q focus
Variability of the S_q focus position in the South American continent 405

Sea flows
Electromagnetometry at the sea floor 639
Sea surface temperature
Air-sea interaction over the tropical Indian Ocean during several contrasting monsoon seasons 393
Seamount
Seamounts in the Central Indian Ocean Basin: indicators of the Indian plate movement 357
Sedimentary rock magnetic anomaly
Magnetics in geoexploration 515
Shear zone
Singhbhum Shear Zone: Structural transition and a kinematic model 229
Silicate
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and the systems Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Singhbhum Shear Zone
Singhbhum Shear Zone: Structural transition and a kinematic model 229
Structural pattern in the precambrian rocks of Sonua-Lotapahar region, North Singhbhum, Eastern India 249
Sodamelilite
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and the systems Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Solid-media apparatus
Problems of pressure estimation in high temperature experiments using solid media apparatus with particular reference to piston–cylinder and anvil-with-hold apparatus (part I) 119
Source effects
Magnetotellurics: Principles and practice 441
Source regions
Vertical structure and characteristics of 23–60 day (zonal) oscillations over the tropical latitudes during the winter months of 1986—Results of equatorial wave campaign–II 413
South America
Variability of the S_q focus position in the South American continent 405
South-Eastern Tibet
Electrical structure of the crust in South Eastern Tibet 717
Spherical earth modelling
Magsat studies over the Indian region 619
Spherical harmonic models
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581
Spinel
Clinopyroxene on the join $CaMgSi_2O_6$–$CaFe^{3+}$·$AlSiO_6$–$CaTiAl_2O_6$ at low oxygen fugacity 39
Spinel lherzolite
Redox state of the upper mantle 141
Statics effects
Magnetotellurics: Principles and practice 441
Structural analysis
Deformation style in the Granulite-charnockite province of South India: An example from the Kusulmalai area in Salem District, Tamil Nadu, India 215
Structural geometry
Structural pattern in the precambrian rocks of Sonua-Lotapahar region, North Singhbhum, Eastern India 249
Structural history
Deformational history of the precambrian Kolar Schist Belt, South India: Constraints for the tectonic evolution 201
Structural mapping
Influence of differential basement mobility on contrasting structural styles in the cover rocks: An example from early precambrian rocks east of Udaipur, Rajasthan 291
Subduction
Tectonics of the ophiolite belt from Naga Hills and Andaman Islands, India 187
Superposed folding
Deformational history of the precambrian Kolar Schist Belt, South India: Constraints for the tectonic evolution 201
Superposed folds
Chhotanagpur Granite Gneiss in relation to the schistose rocks around Murhu, Ranchi District, Bihar: a structural approach 269
Suture
Tectonics of the ophiolite belt from Naga Hills and Andaman Islands, India 187
Synthetic model systems
Experimental petrology: Quantitative boundaries for petrogenesis 5

Tectonic disturbances
Application of the telluric and magnetotelluric methods in selection of sites for nuclear plants 657
Tectonic strain ratio
$R_i - \mu_i/\mu_m - C_i$ dependent oblateness of deformed pebbles in the Baraitha conglomerate, Central India and tectonic implications 321
Tectonic synthesis
Influence of differential basement mobility on contrasting structural styles in the cover rocks; An example from early precambrian rocks east of Udaipur, Rajasthan 291
Tectonics
Indus Tsangpo suture zone in Ladakh—its tectonostratigraphy and tectonics 169
Tectonostratigraphy
Indus Tsangpo suture zone in Ladakh—its tectonostratigraphy and tectonics 169

Telluric methods
Application of the telluric and magnetotelluric methods in selection of sites for nuclear plants 657
Tholeiitic picrite
High pressure-temperature studies on an olivine tholeiite and a tholeiitic picrite from the Pavagarh region, Gujarat, India 91
Thrust sheet
Internal geometry of a thrust sheet, eastern proterozoic belt Godavari Valley, South India 339
Toroidal oscillations
Toroidal oscillations of a transradially isotropic elastic sphere 383
Transcurrent movement
Tectonics of the ophiolite belt from Naga Hills and Andaman Islands, India 187
Transient geomagnetic variations
Magnetometer array studies in India: Present status, data interpretation and assessment of numerical modelling results 693
Transradial isotropy
Toroidal oscillations of a transradially isotropic elastic sphere 383
Tremolite
Experimental study on the tremolite-pargasite join at variable temperatures under 10 kbar 81
Tso Morari cyrstalline complex
Indus Tsangpo suture zone in Ladakh—its tectonostratigraphy and tectonics 169
Two-dimensional magnetic inversion
Magnetic anomalies of two-dimensional bodies and algorithms for magnetic inversion of dykes and basement topographies 549

Ultramafic lamprophyres
A review and assessment of experiments on Kimberlites, Lamproites and Lamprophores as a guide to their origin 57
Upper mantle
Redox state of the upper mantle 141
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma compositions in the upper mantle 153

Vertical structure
Vertical structure and characteristic of 23–60 day (zonal) oscillations over the tropical latitudes during the winter months of 1986—Results of equatorial wave campaign-II 413
Viscosity
$R_i - \mu_i/\mu_m - C_i$ dependent oblateness of deformed pebbles in the Baraitha conglomerate, Central India and tectonic implications 321
Volcanic rocks
A review and assessment of experiments on Kimberlites, Lamproites and Lamprophores as a guide to their origin 57
Volcaniclastic rocks
Structural pattern in the precambrian rocks of Sonua-Lotapahar region, North Singhbhum, Eastern India 249

Water-maximum solidus
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma compositions in the upper mantle 153
Western Bay of Bengal
High saline waters in Bay of Bengal 367
Whole rock systems
Experimental petrology: Quantitative boundaries for petrogenesis 5
Wind stress
Air-sea interaction over the tropical Indian Ocean during several contrasting monsoon seasons 393

Xenolith
Patent mantle-metasomatism: Inferences based on experimental studies 21

Zonal flux
Entrainment of circumpolar water in the Indian Ocean region of the Antarctic 425
Zonal-oscillations
Vertical structure and characteristics of 23–60 day (zonal) oscillations over the tropical latitudes during the winter months of 1986—Results of equatorial wave campaign–II 413

AUTHOR INDEX

Acharyya S K
Tectonics of the ophiolite belt from Naga Hills and Andaman Islands, India 187

Ádám A
Application of the telluric and magnetotelluric methods in selection of sites for nuclear plants 657

Agarwal A K
The nature of horizontal anomalies and magneto-telluric impedance over Southern India 681

Agarwal Snehmani
High pressure-temperature studies on an olivine tholeiite and a tholeiitic picrite from the Pavagarh region, Gujarat, India 91

Akasaka Masahide
Clinopyroxene on the join $CaMgSi_2O_6$–$CaFe^{3+}$·$AlSiO_6$–$CaTiAl_2O_6$ at low oxygen fugacity 39

Arora B R
Magnetometer array studies in India: Present status, data interpretation and assessment of numerical modelling results 693

Bhattacharya D S
Chhotanagpur granite gneiss in relation to the schistose rocks around Murhu, Ranchi district, Bihar: a structural approach 269

Bhattacharya Tapas
see Mukhopadhyay Dhruba 249

Bindal M M
see Agrawal Snehmani 91

Chakraborty Tapan
see Mukhopadhyay Dhruba 249

Chopra Rajeev
see Singh Puniti 49

Dey Arun Kanti
see Mukhopadhyay Dhruba 249

Edgar A D
see Thibault Y 21

Foley Stephen F
A review and assessment of experiments on Kimberlites. Lamproites and Lamprophores as a guide to their origin 57

Gangopadhyay P K
Structural characteristics of the rocks of the Delhi supergroup with special reference to interference patterns: An appraisal with some examples from Central Rajasthan 309

Ghosal Anjan
see Bhattacharyya D S 269

Ghosh S K
Foreword 168
Singhbhum Shear Zone: Structural transition and a kinematic model 229

Green D H
The role of oxidation-reduction and C–H–O fluids in determining melting conditions and magma compositions in the upper mantle 153

Gupta A K
Foreword
see Singh Puniti 49
see Agrawal Snehmani 91

Gupta Alka
Toroidal oscillations of a transradially isotropic elastic sphere 383

Hinze William J
Magnetics in geoexploration 515

Ishbulatov Robert A
Problems of pressure estimation in high temperature experiments using solid media apparatus with particular reference to piston-cylinder and anvil-with-hole apparatus (part I) 119
Problems of pressure estimation in high temperature experiments using solid media apparatus: pressure calibration with reference to breakdown of albite and quartz-coesite transformation (part II) 133

Kadik Arnold A
Redox state of the upper mantle 141

Kane R P
Variability of the S_q focus position in the South American continent 405

Khadge N H
see Mukhopadhyay Ranadhir 357

Kosyakov Alexander V
see Ishbulatov Robert A 119, 133

Krishnamurthy B V
see Raghavarao R 413

Lahiri A
see Gangopadhyay P K 309

Langel Robert A
Study of the crust and mantle using magnetic surveys by Magsat and other satellites 581

Le Mouel J L
see Menvielle M 717

Maheshwari Gopal
see Roday Prakash P 321

Menvielle M
Electrical structure of the crust in South Eastern Tibet 717

Mohanty S
see Naha K 279
Moharir P S
Inversion of potential field data 473
Mukhopadhyay Dhruba
Foreword 168
Structural pattern in the precambrian rocks of Sonua-Lotapahar region, North Singhbhum, Eastern India 249
Mukhopadhyay Dilip K
Deformational history of the precambrian Kolar Schist Belt, South India: Constraints for the tectonic evolution 201
Mukhopadhyay Ranadhir
Seamounts in the Central Indian Ocean Basin: indicators of the Indian plate movement 357

Nagori D K
see Roy A B 291
Nagpal O P
see Raghavarao R 413
Naha K
Foreword 168
Structural studies in the pre-Vindhyan rocks of Rajasthan: A summary of work of the last three decades 279

Oba Takanobu
Experimental study on the tremolite-pargasite join at variable temperatures under 10 kbar 81

Peter Benny N
see Sharma G S 425

Radhakrishna Murthy I V
Magnetic anomalies of two-dimensional bodies and algorithms for magnetic inversion of dykes and basement topographies 549
Radhakrishnamurty C
Palaeomagnetism and rock magnetism of the Deccan traps 669
Raghavarao R
Vertical structure and characteristics of 23–60 day (zonal) oscillations over the tropical latitudes during the winter months of 1986—Results of equatorial wave campaign-II 413
Rajaram Mita
see Singh B P 619
Ramesh Kumar M R
Air-sea interaction over the tropical Indian Ocean during several contrasting monsoon seasons 393
Ravi Kant V
see Bhattacharyya D S 269
Ray K K
see Acharyya S K 187
Roday Prakash P
$R_i - \mu_i/\mu_m - C_i$ dependent oblateness of deformed pebbles in the Baraitha conglomerate, Central India and tectonic implications 321
Roy A B
Influence of differential basement mobility on contrasting structural styles in the cover rocks: An example from early precambrian rocks east of Udaipur, Rajasthan 291

Saha Dilip
Internal geometry of a thrust sheet, eastern Proterozoic belt Godavari Valley, South India 339
Sasamal S K
High saline waters in Bay of Bengal 367
Sastry J S
see Ramesh Kumar M R 393
Segawa Jiro
Electromagnetometry at the sea floor 639
Sengupta B
see Acharyya S K 187
Sengupta Sudipta
see Ghosh S K 229
Sharma G S
Entrainment of a circumpolar water in the Indian Ocean region of the Antarctic 425
Singh B P
Magsat studies over the Indian region 619
Singh Puniti
Preliminary phase equilibria of the nepheline-diopside system under variable pressures (up to 28 kbar) and temperatures 49
Singh Sarva Jit
see Gupta Alka 383
Sridharan R
see Raghavarao R 413
Srivastava Deepak C
Deformation style in the granulite-charnockite province of South India: An example from the Kusulmalai area in Salem District, Tamil Nadu, India 215
Subbarao K V
see Radhakrishnamurty C 669
Suhasini R
see Raghavarao R 413

Taylor W R
Application of infrared spectroscopy to studies of silicate glass structure: Examples from the melilite glasses and the systems Na_2O–SiO_2 and Na_2O–Al_2O_3–SiO_2 99
Thakur V C
Indus Tsangpo suture zone in Ladakh—its tectonostratigraphy and tectonics 169
Thibault Y
Patent mantle-metasomatism: Inferences based on experimental studies 21

Toh Hiroaki
see Segawa Jiro 639

Vaghmarey Narendra H
see Roday Prakash P 321
Verő J
see Ádám A 657
Von Frese R R B
see Hinze William J 515

Vozoff K
Magnetotellurics: Principles and practice 441

Weaver J T
see Agrawal A K 681
Wyllie Peter J
Experimental petrology: quantitative boundaries for petrogenesis 5